

**TECHNICAL EXHIBITS 27 & 30**  
**INTERFERENCE AND SEPARATION REQUIREMENTS**

**IN SUPPORT OF A MINOR CHANGE APPLICATION  
TO MODIFY CONSTRUCTION PERMIT BPH-20090710AAB  
WRAT(FM), POINT PLEASANT, NEW JERSEY  
OCTOBER 2010**



The attached Table I and Table II show the distances<sup>1</sup> from the existing/authorized and proposed antenna site, respectively to pertinent existing and/or proposed FM stations on Channel 240 and  $\pm 3$  and 53/54 channels from the licensed/authorized and proposed WRAT(FM) operations. Tables I and II indicate the existing/authorized and proposed antenna site meets the minimum distance requirements of Section 73.207 of the Commission's rules to all FM stations with the exception of the "grandfathered short-spaced stations."

Table II also indicates the actual distance separation from the proposed WRAT(FM) antenna site to pertinent stations are unchanged or slightly increased when compared to the existing/authorized antenna site.

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<sup>1</sup> Distances rounded to nearest kilometer.



**TABLE I**  
**FM ALLOCATION SITUATION**  
**FOR THE LICENSED AND AUTHORIZED CHANNEL 240A OPERATIONS OF**  
**WRAT(FM), POINT PLEASANT, NEW JERSEY**  
**OCTOBER 2010**

<u>CHANNEL</u>	<u>CALL</u>	<u>CITY/ STATE</u>	<u>GEOGRAPHIC COORDINATES</u>	<u>DISTANCE</u>	
				<u>ACTUAL</u> km	<u>REQUIRED</u> km
240A	WRAT	Point Pleasant, NJ	N 40-10-15 <sup>2</sup> W 74-01-42	--	--
238B	WPLJ	New York, NY	N 40-44-54 W 73-59-10	64 <sup>3</sup>	69
239B	WBEN-FM	Philadelphia, PA	N 40-02-21 W 75-14-13	104 <sup>4</sup>	113
240A	WFOX	Norwalk, CT	N 41-06-54 W 73-26-06	116	115
241B	WCTO	Easton, PA	N 40-35-55 W 75-25-12	127	113
242B	WQXR-FM	New York, NY	N 40-44-54 W 73-59-10	64 <sup>5</sup>	69
243B	WRDW-FM Lic.	Philadelphia, PA	N 40-02-30 W 75-14-11	104	69
293A	WBBO(FM)	Bass River Town, NJ	N 39-37-33 W 74-21-12	66	10
294B	WLTW(FM) Lic.	New York, NY	N 40-44-54 W 73-59-10	65	15

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<sup>2</sup> Existing/Authorized Antenna Site

<sup>3</sup> 73.213 Grandfathered Short-spaced Station

<sup>4</sup> 73.213 Grandfathered Short-spaced Station

<sup>5</sup> 73.213 Grandfathered Short-spaced Station



**TABLE II**  
**FM ALLOCATION SITUATION**  
**FOR THE PROPOSED CHANNEL 240A OPERATION OF**  
**WRAT(FM), POINT PLEASANT, NEW JERSEY**  
**OCTOBER 2010**

<u>CHANNEL</u>	<u>CALL</u>	<u>CITY/ STATE</u>	<u>GEOGRAPHIC COORDINATES</u>	<u>DISTANCE</u>	<u>DISTANCE</u>
				<u>ACTUAL</u> km	<u>REQUIRED</u> km
240A	WRAT	Point Pleasant, NJ	N 40-09-57 <sup>6</sup> W 74-01-56	--	--
238B	WPLJ	New York, NY	N 40-44-54 W 73-59-10	65 <sup>7</sup>	69
239B	WBEN-FM	Philadelphia, PA	N 40-02-21 W 75-14-13	104 <sup>8</sup>	113
240A	WFOX	Norwalk, CT	N 41-06-54 W 73-26-06	117	115
241B	WCTO	Easton, PA	N 40-35-55 W 75-25-12	127	113
242B	WQXR-FM	New York, NY	N 40-44-54 W 73-59-10	65 <sup>9</sup>	69
243B	WRDW-FM	Philadelphia, PA	N 40-02-30 W 75-14-11	104	69
293A	WBBO(FM)	Bass River Town, NJ	N 39-37-33 W 74-21-12	65	10
294B	WLTW(FM)	New York, NY	N 40-44-54 W 73-59-10	65	15

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<sup>6</sup> Proposed Antenna Site

<sup>7</sup> 73.213 Grandfathered Short-spaced Station

<sup>8</sup> 73.213 Grandfathered Short-spaced Station

<sup>9</sup> 73.213 Grandfathered Short-spaced Station